

In the Claims:

1-4. (cancelled)

5. (currently amended) A bipolar transistor as claimed in claim 21-2, further ~~comprising a shallow trench isolation~~, wherein said dielectric region includes a layer of silicon nitride extending between said shallow trench isolation and said slanted sidewall of said collector pedestal.

6. (original) A bipolar transistor as claimed in claim 5 further comprising a dielectric spacer, wherein said raised extrinsic base is self-aligned to said emitter and spaced from said emitter by said dielectric spacer.

7. (cancelled)

8. (original) A bipolar transistor, comprising:
a collector including a frustum-shaped collector pedestal having an at least substantially planar upper surface, a lower surface, and a slanted sidewall extending between said upper surface and said lower surface, wherein said upper surface has an area substantially less than an area of said lower surface;
an intrinsic base overlying all of said area of said upper surface of said collector pedestal;

an emitter overlying said intrinsic base;
a raised extrinsic base conductively connected to said intrinsic base; and
a dielectric region extending along said slanted sidewall of said collector
pedestal adjacent to said upper surface~~A bipolar transistor as claimed in claim 7,~~ wherein a
centerline of said emitter is ~~aligned to~~ in alignment with a centerline of said collector
pedestal.

9. (currently amended) A bipolar transistor as claimed in claim 8, wherein
each of said centerlines of said emitter and said collector pedestal are~~is~~ aligned to a wall
of ~~within~~ a single opening in a layered stack of materials.

10. (original) A bipolar transistor as claimed in claim ~~4~~ 8, wherein said intrinsic
base includes a layer of a single-crystal semiconductor which forms a heterojunction with
at least one of said emitter and said collector pedestal.

11-20. (canceled)

21. (new) A bipolar transistor as claimed in claim 9, further comprising a
shallow trench isolation and a conductive collector contact via, said collector further
including a first active area and a second active area disposed in a single-crystal
semiconductor region, each of said first and second active areas having major surfaces
extending in lateral directions defining a major surface of said semiconductor region, said
first active area underlying said collector pedestal and said second active area being

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Hiroyuki Akatsu et al.

separated in at least one of said lateral directions from said first active area by said shallow trench isolation, wherein said collector contact via overlies said second active area.